



I, a below named inventor, depose and say that: (1) my residence, citizenship, and mailing address are indicated below; (2) I have reviewed and understand the contents of attached specification, including the claims, as amended by any amendment specifically referred to herein, (3) I believe that the other below named inventors and I are the original, first, and joint inventors or discoverers of the invention or discovery in

ACCELERATED METHOD FOR INCREASING THE PHOTOSENSITIVITY OF A GLASSY MATERIAL

described and claimed therein and for which a patent is sought; and (4) I hereby acknowledge my duty to disclose to the Patent and Trademark Office all information known to me to be material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56.*

I hereby appoint Gregory D. Allen (Reg. No. 35,048), Allen Ball (Reg. No. 42,286), Scott A. Bardell (Reg. No. 39,594), Carolyn A. Bates (Reg. No. 27,853), Stephen W. Bauer (Reg. No. 32,192), Dale A. Bjorkman (Reg. No. 33,084), Jennie G. Boeder (Reg. No. 28,952), William J. Bond (Reg. No. 32,400), Stephen W. Buckingham (Reg. No. 30,035), John A. Burtis (Reg. No. 39,924), Paul W. Busse (Reg. No. 32,403). Gerald F. Chernivec (Reg. No. 26,537), James D. Christoff (Reg. No. 31,492), Philip Y. Dahl (Reg. No. 36,115), Charles L. Dennis II (Reg. No. 30,555), Janice L. Dowdall (Reg. No. 31,201), Lisa M. Fagan (Reg. No. 40,601), Yen T. Florczak (Reg. No. 45,163), Darla P. Fonseca (Reg. No. 31,783), John A. Fortkort (Reg. No. 38,454), Melanie G. Gover (Reg. No. 41,793), Gary L. Griswold (Reg. No. 25,396), Doreen S. L. Gwin (Reg. No. 35,580), Michaele A. Hakamaki (Reg. No. 40,011), Karl G. Hanson (Reg. No. 32.900), Melissa M. Hayworth (Reg. No. P-45,774), Néstor F. Ho (Reg. No. 39,460), Rudolph P. Hofmann, Jr. (Reg. No. 38,187), Jeffrey J. Hohenshell (Reg. No. 34,109), Robert W. Hoke (Reg. No. 29,226). MarySusan Howard (Reg. No. 38,729), Stephen C. Jensen (Reg. No. 35,207), Robert H. Jordan (Reg. No. 31,973), Harold C. Knecht III (Reg. No. 35,576), Kent S. Kokko (Reg. No. 33,931), Charles D. Levine (Reg. No. 32,477), Douglas B. Little (Reg. No. 28,439), Eloise J. Maki (Reg. No. 33,418), Lisa M. McGeehan (Reg. No. 41,185), Matthew B. McNutt (Reg. No. 39,766), Michelle M. Michel (Reg. No. 33,968), William D. Miller (Reg. No. 37,988), Peter L. Olson (Reg. No. 35,308), Daniel R. Pastirik (Reg. No. 33,025), David B. Patchett (Reg. No. 39,326), Robert J. Pechman (Reg. No. 45,002), Carolyn V. Peters (Reg. No. 33,271), Scott R. Pribnow (Reg. No. 43,869), Ted K. Ringsred (Reg. No. 35,658), James A. Rogers (Reg. No. 37,228), Steven E. Skolnick (Reg. No. 33,789), Robert W. Sprague (Reg. No. 30,497), Brian E. Szymanski (Reg. No. 39,523), James J. Trussell (Reg. No. 37,251), and Lucy C. Weiss (Reg. No. 32,834). my attorneys and/or agents with full powers (including the powers of appointment, substitution, and revocation) to prosecute this application and any division, continuation, continuation-in-part, reexamination, or reissue thereof, and to transact all business in the Patent and Trademark Office connected therewith: the mailing address and the telephone number of the above-mentioned attorneys and/or agents

Attention: Néstor F. Ho
Office of Intellectual Property Counsel
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Telephone No. 512-984-7443

The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Wherefore, I pray for grant of Letters Patent for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, declaration, power of attorney, and this petition, on the day set forth below.

nes F. Brennan, III

Kesidence: Austin, Travis County, Texas

Citizenship: United States P.O. Box 33427 Post Office

Address:

St. Paul, Minnesota 55133-3427

Diann A. Sloan

Austin, Williamson County, Texas

Residence: United States Citizenship:

P.O. Box 33427 Post Office

Address:

St. Paul, Minnesota 55133-3427

Maureen T. Fahey

Austin, Travis County, Texas

Residence: Citizenship:

United States P.O. Box 33427

Post Office Address:

St. Paul, Minnesota 55133-3427

James C. Novack

Date

Residence:

Hudson, St. Croix County, Wisconsin

Citizenship: Post Office

United States

P.O. Box 33427

Address:

St. Paul, Minnesota 55133-3427

§1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.





DECLARATION, POWER OF ATTORNEY, AND PETITION

I, a below named inventor, depose and say that: (1) my residence, citizenship, and mailing address are indicated below; (2) I have reviewed and understand the contents of attached specification, including the claims, as amended by any amendment specifically referred to herein, (3) I believe that the other below named inventors and I are the original, first, and joint inventors or discoverers of the invention or discovery in

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Attention: Néstor F. Ho
Office of Intellectual Property Counsel
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Telephone No. 512-984-7443

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Diann A. Sloan

~~

Residence:

Austin, Williamson County, Texas

Citizenship: United States Post Office P.O. Box 33427

Address:

St. Paul, Minnesota 55133-3427

Maureen T. Fahey

Date

Date

Residence:

Austin, Travis County, Texas

Citizenship: Post Office

United States
P.O. Box 33427

Address:

St. Paul, Minnesota 55133-3427

James C. Novack

Date

Residence: Hudson,

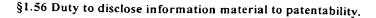
Hudson, St. Croix County, Wisconsin

Citizenship: Post Office

United States P.O. Box 33427

Address:

St. Paul, Minnesota 55133-3427



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 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

2000

PTAS

OFFICE OF INTELLECTUAL PROPERTY COUNSEL NESTOR F. HO

OFFICE OF INTELLECTUAL

PACPERTY COUNSEL

P.O. BOX 33427 55133-3427 ST. PAUL, MINNESOTA

3M INNOVATIVE PROPERTIES COMPANY

SMINNOVATAE PROPERTIES COMPANY

OCT 2 0 2000

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/14/2000

REEL/FRAME: 011021/0945

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BRENNAN, JAMES F. III

DOC DATE: 07/12/2000

ASSIGNOR:

SLOAN, DIANN A.

DOC DATE: 07/11/2000

ASSIGNOR:

FAHEY, MAUREEN T.

DOC DATE: 07/12/2000

ASSIGNOR:

NOVACK, JAMES C.

DOC DATE: 07/12/2000

ASSIGNEE:

3M INNOVATIVE PROPERTIES COMPANY

P.O. BOX 33427

ST. PAUL, MINNESOTA 55133-3427

SERIAL NUMBER: 09616117

PATENT NUMBER:

FILING DATE: 07/14/2000

ISSUE DATE:

RECEIVED OCT 2 5 2000

NESTOR F. HO

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Name of conveying party(ies) Execution (Month/Day/	Name and address of receiving narry(les):		
ames F. Brennan, III 07/12/00)		
DiannA. Sloan 07/11/00	3M Innovative Properties Company		
Maureen T. Fahey 07/12/00	P.O. Box 33427		
James C. Novack 07/12/00	St. Paul, Minnesota 55133-3427		
Additional names of conveying party(ies) attach	ned? 09616117		
Application number or patent number:	0 101011		
Application number or patent number: This document is being filed with a new patent in the patent is the patent in the patent	tent application on Tuly 14, 2000		
This document is to be recorded against the	following patent application or patent:		
Patent Cooperation Treaty (PCT):	the state of the state of the state		
Enter PCT application number only if a U.S. Ap	pplication Number has not been assigned:		
-	ondence concerning document should be mailed:		
Name: Néstor F. Ho, Phone Number: 512	2-984-7443		
Office of Intellectual Property Counsel			
3M Innovative Properties Company			
P.O. Box 33427			
St. Paul, Minnesota 55133-3427			
Number of Properties:			
En	iter the total number of properties involved 1		
Fee Amount:			
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Method of Payment: \bigcirc Charge to Deposit Account No. $\boxed{13-3723}$ = \$40.00 Authorization to charge additional fees: \bigcirc Yes \bigcirc No			
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To the best of my knowledge and belief, the fo	oregoing information is true and correct and any attached cop	y is a	
true copy of the original document. Charges to	o deposit account are authorized, as indicated herein.		
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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments, Washington, D.C. 20231

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ASSIGNMENT

Whereas we, the below named inventors, with residences and citizenships as indicated below; have made an invention in

ACCELERATED METHOD FOR INCREASING THE PHOTOSENSITIVITY OF A GLASSY MATERIAL

and have contemporaneously executed an application for Letters Patent of the United States of America based thereon:

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly owned subsidiary of MINNESOTA MINING AND MANUFACTURING COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by Minnesota Mining and Manufacturing Company and any of its existing or future subsidiaries of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made.

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

James F. Brennan, III

Residence: Austin, Travis County, Texas

Citizenship: United States

STATE OF TEXAS

) ss.

COUNTY OF TRAVIS

On this day of , , , , before me personally appeared the above-named James F. Brennan, IN personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that said person executed the same as said person's free act and deed, on the day and year aforesaid.

THERM MY CON Nove

THERESA T. COLLIER MY COMMISSION EXPIRES November 16, 2000 Thurs J. Collin

Notary Public

	Don 1- Just
	Diann A. Sloan
	Residence: Austin, Williamson County, Texas
•	Citizenship: United States
STATE OF TEXAS)	
) ss.	
COUNTY OF TRAVIS)	
On this day	of July Sloan, personally known by me, and known by me to be the person
appeared the above-named Diann A.	Sloan, personally known by me, and known by me to be the person
described in and who executed the for	egoing instrument, and who acknowledged that said person executed
the same as said person's free act and	leed, on the day and year aforesaid.
and same as same persons at the same	
AT A STATE OF THE	
MARILYN SHANAHAN-LODER	Macilyn Thankon Xide
MY COMMISSION EXPIRES	Machin Manufida Maci
(Meal) May 11, 2001	Notary Public
	Notary Luone
	~ 11
	- \/\/\
	May
	Maureen T! Fahey
	Residence: Austin, Travis County, Texas
	Citizenship: United States
STATE OF TEXAS)	•
) ss.	
COUNTY OF TRAVIS ()	\
COUNTY OF TRAVIS	
On this 12 day	y of, 2000, before me personally
appeared the above-named Maureen	T. Fahey, personally known by me, and known by me to be the person
described in and who executed the fo	oregoing instrument, and who acknowledged that said person executed
the same as said person's free act and	deed, on the day and year aforesaid.
F	
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Marie Control of the	
LINDA BRADSHAW COMMISSION EXPIRES	tide Darble
May 2, 2003	Notary Public
The state of the s	Hotary I done
	James C. Novack
	Residence: Hudson, St. Croix County, Wisconsin
	Citizenship: United States
STATE OF MINNESOTA)	
) SS.	
COUNTY OF RAMSEY)	
On this d	ay of,, before me personally. Novack, personally known by me, and known by me to be the person
appeared the above-named James C	. Novack, personally known by me, and known by me to be the person
described in and who executed the	foregoing instrument, and who acknowledged that said person executed
the came as said person's free act an	d deed, on the day and year aforesaid.
me same as sam person's mee act an	a dood, on the any min your accounts.
(Seal)	N. D. Life
	Notary Public

ASSIGNMENT

Whereas we, the below named inventors, with residences and citizenships as indicated below; have made an invention in

ACCELERATED METHOD FOR INCREASING THE PHOTOSENSITIVITY OF A GLASSY MATERIAL

and have contemporaneously executed an application for Letters Patent of the United States of America based thereon:

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We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

	James F. F	Brennan, III	
		: Austin, Travis Cou	nty, Texas
	Citizenshi	p: United States	•
STATE OF TEXAS)		
) ss.		•
COUNTY OF TRAVIS)		
On this	day of		before me personally
appeared the above-name	ed James F. Brennan, III who executed the forego	l, personally known by Ding instrument, and w	y me, and known by me to be the ho acknowledged that said persor
(Seal)			Notary Public

		Diann A. Sloan Residence: Austin, Williamson County, Texas Citizenship: United States
TATE OF TEXAS)	
COUNTY OF TRAVIS) ss.)	
On this	d Diann A. S	of,, before me personally Sloan, personally known by me, and known by me to be the person egoing instrument, and who acknowledged that said person executed eed, on the day and year aforesaid.
(Seal)		Notary Public
		Maureen T. Fahey
		Residence: Austin, Travis County, Texas Citizenship: United States
STATE OF TEXAS)	•
COUNTY OF TRAVIS) ss.)	y of,, before me personally
appeared the above-nam	ed Maureen	T. Fahey, personally known by me, and known by me to be the person foregoing instrument, and who acknowledged that said person executed I deed, on the day and year aforesaid.
(Seal)		Notary Public
		James C. Novack Residence: Hudson, St. Croix County, Wisconsin Citizenship: United States
STATE OF MINNESO	OTA)) ss. /	
Advertise - 1	amed James	day of, <u>2000</u> , before me personally C. Novack, personally known by me, and known by me to be the person e foregoing instrument, and who acknowledged that said person executed and deed, on the day and year aforesaid.
		Landa & Bellows
(Seal)		Notary Public
MY COMA	L. BELLOWS TUBLIC - MIRNESOT MISSION EXPIR MARY 31, 2005	'A {